

## Product datasheet for PH309199

### GNAQ (NM\_002072) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | GNAQ MS Standard C13 and N15-labeled recombinant protein (NP_002063)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC209199   |
| Predicted MW:                         | 42.1 kDa   |
| Protein Sequence:                     | >RC209199 protein sequence<br>Red=Cloning site Green=Tags(s)   |
|                                       | MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGSGYSDE<br>DKRGFTKL VYQNI FTAMQAMIRAMDTLKI PKYEHNKAHAQLVREVDVEKVS AFENPYVDAIKSLWNDPG<br>IQECYDRRREYQLSDSTKY LNDLDRVADPAYLPTQQDVL RVRVPTTGIIEY PFDLQSVIFR MVDVGGQR<br>SERRKWIHCFENVTSIMFLVALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLE<br>EKIMYSHLVDFPEYDGPQRDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAVKDTILQ<br>LNLKEYNLV |
|                                       | TRTRPLEQKLI SEEDLAANDILDYKDDDDKV   |
| Tag:                                  | C-Myc/DDK  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method:                      | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_002063</a>  |
| RefSeq Size:                          | 6343   |
| RefSeq ORF:                           | 1077   |
| Synonyms:                             | CMC1; G-ALPHA-q; GAQ; SWS  |
| Locus ID:                             | 2776   |



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UniProt ID: [P50148](#), [A0A024R240](#)

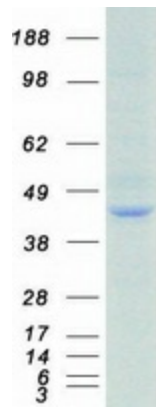
Cytogenetics: 9q21.2

Summary: This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.[provided by RefSeq, Nov 2010]

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Calcium signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Long-term depression, Long-term potentiation, Melanogenesis, Vascular smooth muscle contraction

### Product images:



Coomassie blue staining of purified GNAQ protein (Cat# [TP309199]). The protein was produced from HEK293T cells transfected with GNAQ cDNA clone (Cat# [RC209199]) using MegaTran 2.0 (Cat# [TT210002]).